

LArSoft - Support #23780

Include hep_hpc in larsoft distribution

12/18/2019 02:10 PM - Tingjun Yang

Status:	Closed	Start date:	12/18/2019
Priority:	Normal	Due date:	
Assignee:	Kyle Knoepfel	% Done:	100%
Category:		Estimated time:	16.00 hours
Target version:		Spent time:	2.00 hours
Experiment:	-	Co-Assignees:	
Description Dear LArSoft Experts, Would it be OK to include hep_hpc_toolkit in the larsoft distribution? Thanks, Tingjun			
Update: Tingjun later confirmed that just including the hep_hpc package in the LArSoft distribution is sufficient at this point.			

History

#1 - 01/06/2020 10:48 AM - Kyle Knoepfel

- Estimated time set to 16.00 h
- Assignee set to Kyle Knoepfel
- Status changed from New to Assigned

This is a reasonable request.

#2 - 01/23/2020 04:27 PM - Tingjun Yang

LArSoft v08_41_00 depends on hdf5 v1_10_5.

However, the newest hep_hpc from scisoft:
https://scisoft.fnal.gov/scisoft/packages/hep_hpc/
v0_11_00 depends on hdf5 v1_10_3a. This causes a conflict for dune.

Would it be possible to make a new version of hep_hpc that depends on hdf5 v1_10_5?

Thanks.

#3 - 01/23/2020 06:15 PM - Lynn Garren

The wirecell product added a dependency on hdf5. It also added a dependency on protobuf. I believe the toolkit needs to be updated.

#4 - 01/27/2020 09:20 AM - Brett Viren

Hi. There currently is no dependency of Wire-Cell Toolkit 0.13.x (latest release branch) on protobuf. The master branch had one for a while but adding that was a mistake (mine) and it was removed prior to the 0.13.x branching. If you still see some dependency on protobuf, please let me know where it comes in and we'll make sure to remove it.

Some off-topic background:

We **are** doing some new development that depends on protobuf (and some other new dependencies). This development is kept outside the WCT source repo but uses WCT's "wcb" builder which is why this dependency unwantedly "leaked" in. I'll bring up some issues about how best to handle this expanded dependency tree on the scisoft mailing list or somewhere as it's off-topic here. Just know that you needn't worry about protobuf for WCT right now!

#5 - 01/30/2020 08:13 AM - Tingjun Yang

Would it be possible to make a new version of hep_hpc that depends on hdf5 v1_10_5? We just need e19:prof at the very least.

Thanks.

#6 - 02/03/2020 10:44 AM - Kyle Knoepfel

Yes, that is a reasonable request.

#7 - 02/04/2020 11:48 AM - Kyle Knoepfel

- Status changed from Assigned to Feedback

Tingjun, is the request to just provide the hep_hpc package (using HDF5 v1_10_5) with the LArSoft distribution, or the full hep_hpc_toolkit as part of the LArSoft distribution? The toolkit right now supports Python 2, and it would take some effort to upgrade it to Python 3.

#8 - 02/04/2020 11:51 AM - Tingjun Yang

Hi Kyle,

For now we just need hep_hpc package in the LArSoft distribution.

Thanks,
Tingjun

#9 - 02/04/2020 11:52 AM - Kyle Knoepfel

Okay, that's easily doable. Will talk with Lynn to get it in there.

#10 - 02/04/2020 11:53 AM - Kyle Knoepfel

- % Done changed from 0 to 80

- Status changed from Feedback to Assigned

#11 - 02/04/2020 12:04 PM - Kyle Knoepfel

- % Done changed from 80 to 100

- Status changed from Assigned to Resolved

- Description updated

- Subject changed from Include hep_hpc_toolkit in larsoft distribution to Include hep_hpc in larsoft distribution

The source-code tarball for hep_hpc v1_12_00 has been uploaded to SciSoft. This version requires C++17 (either the e19 or c7) qualifiers, and uses HDF5 v1_10_5. We will close this issue after the package has been included in the LArSoft distribution.

#12 - 02/10/2020 10:24 AM - Kyle Knoepfel

- Status changed from Resolved to Closed

hep_hpc is included in the LArSoft v08_42_00 distribution.